

## Special Issue

# Machine Learning Algorithms for Power Systems and Renewable Energy Applications

### Message from the Guest Editors

This Special Issue is dedicated to contributions that explore the application of ML techniques in modern power systems. Contributions are encouraged in, but not restricted to, the following areas:

- Forecasting renewable energy production using advanced ML techniques.
- ML algorithms to implement strategies to counteract the variability from RESs in power systems.
- Surrogate modeling of computationally intensive simulations and routines in power systems using ML.
- Integration of ML, Internet of Things, and big data analysis for energy efficiency enhancement.
- Predictive modeling of electricity prices using ML.
- Bidding strategy optimization in energy markets through ML algorithms.
- Smart control and optimization of Battery Energy Storage Systems via ML.
- Enhancing Energy Management Systems through ML-based optimization tools.
- Improving grid operations (e.g., reconfiguration and fault detection) using ML approaches.

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### Guest Editors

Prof. Dr. Renato Procopio

Dr. Alice La Fata

Dr. Rodolfo Antônio Ribeiro De Moura

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### Deadline for manuscript submissions

10 July 2026



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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